

Substitute for form 1449A/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet	1	of	2
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Complete if Known

Application Number	10/612,239
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Filing Date	July 1, 2003
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First Named Inventor	KUO, ERIC
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Art Unit	Unassigned
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Examiner Name	Unassigned
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Attorney Docket Number	018563-006700US
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U.S. PATENT DOCUMENTS+

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FOREIGN PATENT DOCUMENTS

[illegible]

**Examiner
Signature**

John Wilson

Date Considered

1/10/06

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹ Applicant's unique citation designation number (optional). ² Kind Codes of U.S. Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

60044312 v1

Substitute for form 1449B/PTO

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Sheet

2

of

2

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Application Number	10/612,239
Filing Date	July 1, 2003
First Named Inventor	KUO, ERIC
Art Unit	Unassigned
Examiner Name	Unassigned
Attorney Docket Number	018563-006700US

NON PATENT LITERATURE DOCUMENTS

Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
<i>Jan</i>	AH	Raintree Essix & ARS Materials, Inc., Raintree Essix Technical Magazine Table of Contents and Essix Applications, http://www.essix.com/magazine/default.html (Aug. 13, 1997) 7 pages.	
	AI	Chiappone, Constructing the Gnathologic Setup and Positioner, <i>J. Clin. Orthod.</i> 14:121-133 (1980).	
	AJ	Cottingham, Gnathologic clear plastic positioner, <i>Am. J. Orthodontics</i> 55:23-31 (1960).	
	AK	Cureton, Correcting Malaligned Mandibular Incisors with Removable Retainers, <i>J. Clin. Orthodon.</i> 30:390-395 (1996).	
	AL	Kessling, The Philosophy of the Tooth Positioning Appliance, <i>Am. J. Orthod Oral Surg.</i> , 31:297-304, (1945).	
	AM	Kesling, Coordinating the Predetermined Pattern and Tooth Positioner with Conventional Treatment, <i>Am. J. Orthod. Oral Surg.</i> 32: 285-293, (1946).	
	AN	Kleeman et al., The Speed Positioner, <i>J. Clin. Orthod.</i> 30:673-680, (1996).	
	AO	Shilliday, Minimizing finishing problems with the mini-positioner <i>Am. J. Orthod.</i> (1971) 59:596-599.	
	AP	Warunek et al., Clinical use of silicone elastomer appliances <i>JCO</i> (1989) XXIII(10):694-700.	
<i>Jan</i>	AQ	Wells, Application of the positioner appliance in orthodontic treatment <i>Am. J. Orthodont.</i> (1970) 58:351-366.	

Examiner
Signature*John Wilson*Date
Considered*1/10/06*

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PTO/SB/08A (08-03)

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				First Named Inventor	KUO, ERIC
				Art Unit	3732
				Examiner Name	Wilson, John
Sheet	1	of	10	Attorney Docket Number	018563-006700US

U.S. PATENT DOCUMENTS+					
Examiner Initials*	Cite No. ¹	Document Number Number Kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
JW	1	2,467,432	04-19-1949	Kesling	
	2	3,660,900	05-09-1972	Andrews	
	3	3,860,803	01-14-1975	Levine	
	4	3,916,526	11-04-1975	Schudy	
	5	3,950,851	04-20-1976	Bergersen	
	6	4,014,096	03-29-1977	Dellinger	
	7	4,195,046	03-25-1980	Kesling	
	8	4,324,546	04-13-1982	Heitlinger et al.	
	9	4,348,178	09-07-1982	Kurz	
	10	4,478,580	10-23-1984	Barut	
	11	4,504,225	03-12-1985	Yoshii	
	12	4,505,673	03-19-1985	Yoshii	
	13	4,575,805	03-11-1986	Moermann, et al.	
	14	4,611,288	09-09-1986	Duret et al.	
	15	4,656,860	04-14-1987	Orthuber et al.	
	16	4,663,720	05-05-1987	Duret et al.	
	17	4,742,464	05-03-1988	Duret et al.	
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	20	4,837,732	06-06-1989	Brandestini et al.	
	21	4,850,864	07-25-1989	Diamond	
	22	4,936,862	06-26-1990	Walker et al.	
	23	4,937,928	07-03-1990	Van Der Zel	
	24	4,964,770	10-23-1990	Steinbichler et al.	
	25	4,975,052	12-04-1990	Spencer et al.	
	26	5,011,405	04-30-1991	Lemchen	
	27	5,017,133	05-21-1991	Miura	
	28	5,027,281	06-25-1991	Rekow et al.	
	29	5,100,316	03-31-1992	Wildman	
	30	5,121,333	06-09-1992	Riley et al.	
	31	5,128,870	07-07-1992	Erdman et al.	
	32	5,131,843	07-21-1992	Hilgers et al.	
	33	5,131,844	07-21-1992	Marinaccio et al.	
	34	5,139,419	08-18-1992	Andreiko et al.	
	35	5,184,306	02-02-1993	Erdman et al.	
	36	5,257,203	10-26-1993	Riley et al.	
	37	5,273,429	12-28-1993	Rekow et al.	
	38	5,278,756	01-11-1994	Lemchen et al.	
	39	5,338,198	08-16-1994	Wu et al.	
	40	5,340,309	08-23-1994	Robertson	
	41	5,342,202	08-23-1994	Deshayes	
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60473211 v1

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		Filing Date	July 1, 2003
		First Named Inventor	KUO, ERIC
		Art Unit	3732
		Examiner Name	Wilson, John
Sheet 2	of 10	Attorney Docket Number	018563-006700US

U.S. PATENT DOCUMENTS*							
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		Number	Kind Code ² (if known)				
ga	42	5,368,478		11-29-1994	Andreiko et al.		
	43	5,382,164		01-17-1995	Stern		
	44	5,395,238		03-07-1995	Andreiko et al.		
	45	5,431,562		11-11-1995	Andreiko et al.		
	46	5,440,496		08-08-1995	Andersson et al.		
	47	5,447,432		09-05-1995	Andersson et al.		
	48	5,452,219		09-19-1995	Dehoff et al.		
	49	5,454,717		10-03-1995	Andreiko et al.		
	50	5,456,600		10-10-1995	Andreiko et al.		
	51	5,474,448		12-12-1995	Andreiko et al.		
	52	5,518,397		05-21-1996	Andreiko et al.		
	53	5,533,895		07-09-1996	Andreiko et al.		
	54	5,542,842		08-06-1996	Andreiko et al.		
	55	5,549,476		08-27-1996	Stern		
	56	5,587,912		12-24-1996	Andersson et al.		
	57	5,605,459		02-25-1997	Kuroda et al.		
	58	5,607,305		03-04-1997	Andersson et al.		
	59	5,645,421		07-08-1997	Slotsky		
	60	5,655,653		08-12-1997	Chester		
	61	5,683,243		11-04-1997	Andreiko et al.		
	62	5,733,126		03-31-1998	Andersson et al.		
	ga	63	5,740,267		04-14-1998	Echerer et al.	
		64	5,975,893		11-02-1999	Chishti et al.	

FOREIGN PATENT DOCUMENTS								
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		Country Code ³	Number ⁴	Kind Code ⁵ (if known)				
g	65	EP	0091876	A1	10-19-1983	Duret		<input checked="" type="checkbox"/>
	66	EP	0299490	A2	01-18-1989	Steinbichler et al.		<input checked="" type="checkbox"/>
	67	EP	0376873	A2	07-04-1990	Shafir		<input type="checkbox"/>
	68	EP	0490848	A2	06-17-1992	Nobelpharma AB.		<input type="checkbox"/>
	69	EP	0541500	A1	06-12-1998	Nobelpharma AB		<input type="checkbox"/>
	70	EP	0731673	B1	09-18-1998	Andersson et al.		<input type="checkbox"/>
	71	EP	0774933	B1	05-28-1997	Oden et al.		<input type="checkbox"/>
	72	FR	2652256	A1	03-29-1991	Jourda		<input checked="" type="checkbox"/>
	73	FR	2369828	A1	06-02-1978	Suyehiro		<input checked="" type="checkbox"/>
	74	WO	90/08512	A1	08-09-1990	Dolphin Imaging Systems		<input type="checkbox"/>
g	75	WO	91/04713	A1	04-18-1991	Jourda et al.		<input type="checkbox"/>
Examiner Signature		John Wilson			Date Considered		11/10/06	

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60473211 v1

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				Art Unit	3732
Examiner Name	Wilson, John				
Sheet	3	of	10	Attorney Docket Number	018563-006700US

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		Country Code ³	Number ⁴	Kind Code ⁵ (if known)				
ja	78	WO	94/10935	A1	05-26-1994	Ormco Corporation		<input type="checkbox"/>
ja	77	WO	98/44865	A1	10-15-1998	Nobel Biocare		<input type="checkbox"/>
ja	78	WO	98/58596	A1	12-30-1998	Align Technology		<input type="checkbox"/>

Examiner Signature	<i>John Wilson</i>	Date Considered	1/10/06
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JW	79	ALEXANDER et al., "The DigiGraph Work Station Part 2, Clinical Management," JCO (July 1990), pp. 402-407.		
	80	ALTSCHULER et al., "Measuring Surfaces Space-Coded by a Laser-Projected Dot Matrix," SPIE Imaging Applications for Automated Industrial Inspection and Assembly, vol. 182 (1979), p. 187-191.		
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	82	ALTSCHULER et al., "Laser Electro-Optic System for Rapid Three-Dimensional (3D) Topographic Mapping of Surfaces," Optical Engineering, Vol. 20(6) (1981), pp. 953-961.		
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	85	ANDERSSON et al., "Clinical Results with Titanium Crowns Fabricated with Machine Duplication and Spark Erosion," Acta Odontologica Scandinavica, vol. 47 (1989), pp. 279-286.		
	86	BAUMRIND et al., "A Stereophotogrammetric System for the Detection of Prosthesis Loosening in Total Hip Arthroplasty", NATO Symposium on Applications of Human Biostereometrics, July 9-13, 1978, SPIE Vol. 166, pp. 112-123.		
	87	BAUMRIND et al., "Mapping the Skull in 3-D, Reprinted from The Journal, California Dental Association, Vol. 48, No. 2 (1972 Fall Issue) 11 pages total.		
	88	BAUMRIND, "A System for Craniofacial Mapping Through the Integration of Data from Stereo X-Ray Films and Stereo Photographs," An invited paper submitted to the 1975 American Society of Photogram. Symposium on Close-Range Photogram. Systems, University of Ill., Aug. 26-30, 1975, pp. pp.142-166.		
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	91	BERNARD et al., "Computerized Diagnosis in Orthodontics for Epidemiological Studies: A Progress Report", Abstracts of Papers, Journal of Dental Research; Vol. 67, Special Issue March 9-13, 1988, p.169.		
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JW	93	BIGGERSTAFF et al., "Computerized Analysis of Occlusion In The Postcanine Dentition," <i>American Journal of Orthodontics</i> , Vol. 61, No. 3 (Mar. 1972), pp. 245-254.	
	94	BIGGERSTAFF, "Computerized Diagnostic Setups and Simulations," <i>The Angle Orthodontist</i> , Vol. 40, No. 1 (Jan. 1970), pp. 28-36.	
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	99	BURSTONE et al., "Precision Adjustment of the Transpalatal Lingual Arch: Computer Arch Form Predetermination," <i>Am. Journal of Orthodontics</i> , Vol. 79, No. 2 (Feb. 1981), pp. 115-133.	
	100	CHACONAS et al., "The DigiGraph Work Station, Part 1, Basic Concepts," <i>JCO</i> (June 1990), pp. 360-367.	
	101	CHAFETZ et al., "Subsidence of the Femoral Prosthesis, A Stereophotogrammetric Evaluation," <i>Clinical Orthopaedics and Related Research</i> , No. 201 (December 1985), pp. 60-67.	
	102	CRAWFORD, "Computers in Dentistry: Part 1: CAD/CAM: The Computer Moves Chairside," "Part 2: F. Duret — A Man With A Vision," "Part 3: The Computer Gives New Vision- Literally," "Part 4: Bytes 'N Bites" The Computer Moves From The Front Desk To The Operator," <i>Canadian Dental Journal</i> , vol. 54(9), (1988), pp. 661-666.	
	103	CRAWFORD, "CAD/CAM in the Dental Office: Does It Work?" <i>Canadian Dental Journal</i> , Vol. 57, No. 2 (Feb. 1991), pp. 121-123.	
	104	CROOKS, "CAD/CAM Comes to USC," <i>USC Dentistry</i> , (Spring 1990) pp. 14-17.	
	105	CURRY et al., "Integrated Three-Dimensional Craniofacial Mapping at the Craniofacial Research Instrumentation Laboratory/University of the Pacific," <i>Seminars in Orthodontics</i> , Vol. 7, No. 4 (Dec. 2001), pp. 258-265.	
JW	106	CUTTING et al., "Three-Dimensional Computer-Assisted Design of Craniofacial Surgical Procedures: Optimization and Interaction with Cephalometric and CT-Based Models," <i>Plastic and Reconstructive Surgery</i> , Vol. 77, No. 6 (June 1986), pp. 877-885.	

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JW	107	DCS Dental AG, "The CAD/CAM 'DCS Titan System' for Production of Crowns/Bridges" DSC Production AG, Jan. 1992, pp. 1-7.	
	108	DEFranco et al., "Three-Dimensional Large Displacement Analysis of Orthodontic Appliances," <i>J. Biomechanics</i> , Vol. 9 (1976), pp. 793-801.	
	109	Dental Institute University of Zurich Switzerland, Program for International Symposium on Computer Restorations: State of the Art of the CEREC-Method, May 1991, 2 pages total.	
	110	DenTrac Corporation, Dentrac document, pp. 4-13.	
	111	DURET et al, "CAD-CAM in Dentistry," <i>Journal of the American Dental Association</i> , Vol. 117 (Nov. 1988), pp. 715-720.	
	112	DURET et al., "CAD/CAM Imaging in Dentistry," <i>Current Opinion in Dentistry</i> , Vol. 1 (1991), pp. 150-154.	
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	115	ECONOMIDES, "The Microcomputer in the Orthodontic Office," <i>JCO</i> , (Nov. 1979), pp. 767-772.	
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	119	FRIEDE et al., "Accuracy of Cephalometric Prediction in Orthognathic Surgery," Abstract of Papers, <i>Journal of Dental Research</i> , Vol. 70 (1987), pp. 754-760.	
	120	GIM-ALLDENT Deutschland, "Das DUX System: Die Technik" 2 pages total.	
JW	121	GRAYSON, "New Methods for Three Dimensional Analysis of Craniofacial Deformity," Symposium: Computerized Facial Imaging in Oral and Maxillofacial Surgery Presented on September 13, 1990, AAOMS 72nd Annual Meeting and Scientific Sessions, Sept. 13, 1990, New Orleans, <i>Journal of Oral and Maxillofacial Surgery</i> , Vol. 48, no. 8, Supp. 1, August 1990, p. 5-6.	

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Sheet	7	of	10	Attorney Docket Number	018563-006700US

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<i>JW</i>	154	RICHMOND et al., Research Reports, "The Development of a 3D Cast Analysis System," <i>British Journal of Orthodontics</i> , Vol. 13, No. 1, (January 1986) pp. 53-54.	
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